

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
31 March 2005 (31.03.2005)

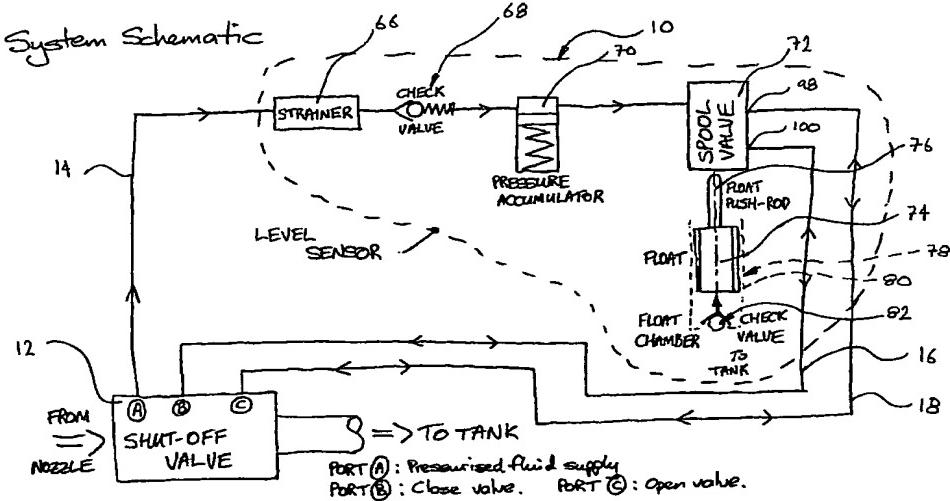
PCT

(10) International Publication Number
WO 2005/028935 A1

- (51) International Patent Classification⁷: **F16K 31/30, B67D 5/372, G01F 23/30** New South Wales 2290 (AU). KEYS, Shane [AU/AU]; 131 Maitland Road, MAYFIELD, New South Wales 2304 (AU).
- (21) International Application Number: **PCT/AU2004/001302** (74) Agent: BLAKE DAWSON WALDRON PATENT SERVICES; Level 37, Grosvenor Place, 225 George Street, SYDNEY, New South Wales 2000 (AU).
- (22) International Filing Date: 23 September 2004 (23.09.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
- (26) Publication Language: English
- (30) Priority Data: 2003248297 23 September 2003 (23.09.2003) AU
- (71) Applicant (for all designated States except US): BAN-LAW PIPELINE PTY LTD [AU/AU]; 17 Strathmore Road, CAVES BEACH, New South Wales 2281 (AU).
- (72) Inventors; and (75) Inventors/Applicants (for US only): PEATTIE, Adam Robert [AU/AU]; 247 Warners Bay Road, MT HUTTON,

[Continued on next page]

(54) Title: TANK REFUELING SYSTEM



WO 2005/028935 A1

(57) Abstract: The present invention relates generally to a fluid level control system comprising a level sensor (10), and a valve in the form of a shut-off valve (12). The level sensor (10) is mounted to a vessel (not shown) and designed to sense the level of fluid, such as fuel, in the vessel. The shut-off valve (12) is designed to be actuated by a dry-break refuelling nozzle (not illustrated). The shut-off valve (12) is operatively coupled to the level sensor (10) via a sampling flow line (14) together with first and second hydraulic return lines (16) and (18), respectively. The shut-off valve (12) is of a normally-open configuration wherein it permits the flow of fuel from the refuelling nozzle to the vessel whilst the fluid or fuel level is below a predetermined level. The level sensor (10) is configured to effect closure of the shut-off valve (12) when the fuel level is at the predetermined level.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*